Nixon & Vanderhye P.C.

ATTORNEYS AT LAW

11TH FLOOR
901 NORTH GLEBE ROAD
ARLINGTON, VIRGINIA 22203-1808
UNITED STATES OF AMERICA

January 24, 2007

TELEPHONE: (703) 816-4000
FACSIMILE: (703) 816-4100
WRITER'S DIRECT DIAL NUMBER:
(703) 816-4028
e-mail: scs@nixonvan.com

United States Department of Commerce
U.S. Patent and Trademark Office
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
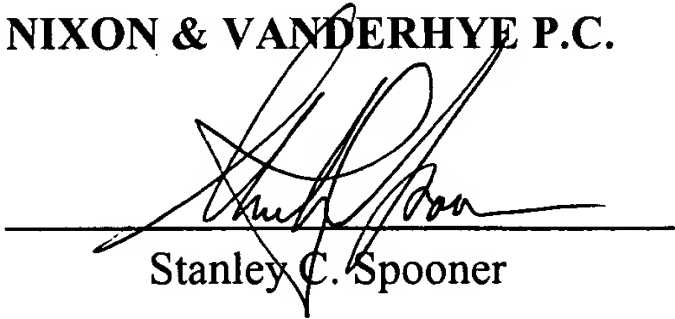
Attn: Art Unit 2132 – Examiner Kristen D. Sandoval

> **Subject:** U.S. Patent Application No. 09/911,765
> Inventor: Muttik
> Our Ref.: 550-247

Dear Sir:

Returned herewith is the Final Official Action mailed January 12, 2007 which was mistakenly forwarded to this firm. Attention is directed to the Change of Correspondence Address form filed June 26, 2006.

Very truly yours,

NIXON & VANDERHYE P.C.
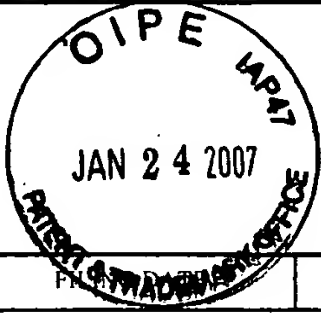
Stanley C. Spooner

SCS/kmm
Enclosure:
  Final Official Action mailed January 12, 2007

cc: Kevin J. Zilka, Esq., Zilka-Kotab, PC w/ encl.

1164095

Transferred out   Lertf

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

550-247

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,765	07/25/2001	Igor Muttik	01.042.01 ~~SCS~~	5011

			EXAMINER
23117	7590	01/12/2007	SANDOVAL, KRISTIN D

NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

ART UNIT	PAPER NUMBER
2132	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

DOCKETED

CLT/MATTER #_____

MAIL DATE _____

DUE DATE _____

FINAL DEADLINE _____

DOCKETED BY _____

PTOL-90A (Rev. 10/06)

	Application No.	Applicant(s)
	09/911,765	MUTTIK ET AL.
Office Action Summary	Examiner	Art Unit	
	Kristin D. Sandoval	2132	

JAN 2 4 2007

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>30 October 2006</u>.

2a)☒ This action is **FINAL**.　　2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-51</u> is/are pending in the application.

　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) <u>48 and 49</u> is/are allowed.

6)☒ Claim(s) <u>1-47,50 and 51</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

　　a)☐ All　b)☐ Some *　c)☐ None of:

　　　1.☐ Certified copies of the priority documents have been received.

　　　2.☐ Certified copies of the priority documents have been received in Application No. _____ .

　　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

　　* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08)
　Paper No(s)/Mail Date <u>10/30/06</u>.

4)☐ Interview Summary (PTO-413)
　Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____ .

DETAILED ACTION

1.   Claims 1-51 are pending.

Claim Rejections - 35 USC § 112

2.   Amendments to the claims overcome the previous 112 rejections.

Response to Arguments

3.   Applicant's arguments filed October 30, 2006 have been fully considered but they are not persuasive.

With regard to Applicant's arguments that Gryaznov fails to teach dividing an on-access malware scan into a plurality of tasks and a malware scanning task being one of a plurality of malware scanning tasks that are each part of an on-access malware scan, Examiner respectfully disagrees. Gryaznov discloses a virus scan that scans news messages for viruses. In order to complete the scan of the news messages, the virus scan is divided up into multiple tasks, these tasks consist of individual partitioned virus scans, where each virus scan is responsible for scanning a portion of the news messages where the scanning occurs in parallel (5:46-6:13).

With regard to Applicant's argument that Gryanzov fails to suggest issuing a plurality of tasks to be performed by a plurality of different computers, the Examiner respectfully disagrees. Gryaznov discloses the various tasks of virus scanning different partitions of the news messages occurring concurrently on a plurality of partition servers which constitute a plurality of different computers (6:1-13).

With regard to Applicant's argument that Gryaznov fails to disclose a plurality of malware scanning task results corresponding to a plurality of malware scanning tasks being collated to form a scan result corresponding to said on-access malware scan, Examiner respectfully disagrees. Gryaznov discloses each virus scanner, upon discovering any infected file, sending warning messages to a list of specified addressees, including the administrator for the virus scanners. Therefore, the results of each task, which consists of the partitioned virus scan, are collated at the administrator for all the virus scanners since the administrator receives all results in the form of warning messages (7:36-45).

With regard to Applicant's argument that Gartside fails to teach not further dividing an on-access malware scan if the malware scan is detected as having a complexity below a predetermined threshold level, Examiner respectfully disagrees. Gartside discloses a complexity level based on pre-compressed archive size, number of files within the archive and number of file types. If the levels of these factors are below a predetermined threshold then the overall complexity of the scan is below a certain threshold level and thus, the scan is not further divided beyond scanning for an excessive pre-compressed archive size, number of files with the archive and number of file types (6:25-64).

Allowable Subject Matter

4.   Claims 48 and 49 allowed.

~~Conclusion~~

scanners are identifying properties of a computer file since they are identifying viruses which are

properties of the computer file that they are infecting).

As per claims 8, 23 and 38:

Gryaznov discloses a computer program product wherein the one or more tasks are

further divided into sub-tasks (5:46-67, fig. 4a-4c, wherein the sequence of process steps are the

tasks, which are the multiple virus scans into sub-tasks which are the processing steps that each

virus scan is broken down into).

As per claims 12, 27, 42 and 50:

Gryaznov discloses a computer program product wherein the result collating logic

terminates any outstanding tasks if a task result is received indicating detection of malware

within said computer file (7:36-45).

As per claim 51:

Gryaznov discloses a computer program product wherein said plurality of tasks are

distributed among said plurality of different computers via network (6:1-13).

Claim Rejections - 35 USC § 103

7.   Claims 2-4, 9-11, 14, 17-19, 24-26, 29, 32-34, 39-41, 44 and 46-47 rejected under 35

U.S.C. 103(a) as being unpatentable over Gryaznov (U.S. 6,748,534) as applied to claims 1, 7,

13, 16, 22, 28, 31, 37 and 43 above, and further in view of Gartside, U.S. Patent No. 6,851,058.

As per claims 2-4, 14, 17-19, 29, 32-34 and 44:

Gryaznov fails to teach computer files being divided into component files that contain

embedded computer files to also be component computer files wherein the computer file is one

of a given list of types. However, Gartside discloses a method wherein a computer file is an archive file and the archive file is broken down into its component files which are further broken down if embedded files exist in order to be scanned (3:36-50 wherein the files are extracted from the archive and are thus divided out from the file and if one of the files is thus embedded and is an archive, it is extracted for scan, therefore the computer file is divided into component computer files to be separately scanned, 4:39-48, 1:53-63).

As per claims 9-11, 24-26 and 39-41 and 46-47:

Gryaznov fails to teach where a task is selected to be issued to another computer in dependence upon one of a variety of reasons and the scan dividing logic does not divide the scan if the scan is detected as having a complexity below a predetermined threshold level and where the complexity is determined as a function of one or more of a list. However, Gartside discloses an archive file not being divided if it is below a certain complexity level (6:17-65) wherein the complexity level is determined as a function of the archive file (6:17-65), and a scan being selected to happen depends upon the storage space available (4:61-5:6).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to combine the distributed scanning invention of Gryaznov with the archive scanning of Gartside because if the news database contained files with embedded files they could utilize a severe amount of processing power and memory space in order to scan through all of them (Gartside, 1:64-2:6). Therefore, the division of the embedded archive files would allow the news database to provide the processing and bandwidth throughput required by a growing dataset (Gryaznov, 2:33-40).

8.   Claims 6, 21 and 36 rejected under 35 U.S.C. 103(a) as being unpatentable over

Gryaznov as applied to claims 1 and 5 above, and further in view of Ranger et al. (Ranger), U.S.

Patent No. 6,393,568.

        As per claims 6, 21 and 36:

        Gryaznov fails to teach the plurality of tasks seeking to identify different portion of one

of a cryptographic analysis and an emulation analysis. However, Ranger discloses a method

wherein a virus scans employs a cryptographic analysis in order to determine whether any

unsolicited content is present within an encrypted file (2:25-46).

        It would have been obvious to one of ordinary skill in the art at the time of applicant's

invention to utilize the invention of Ranger in combination with the invention of Gryaznov in

order to detect viruses in encrypted news threads and thus increase the ability of the virus

scanners to locate computer viruses in not only embedded computer files but also encrypted

ones.

Allowable Subject Matter

9.   Claims 48 and 49 objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims.

        Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kristin Derwich whose telephone number is 571-272-7958. The

examiner can normally be reached on Monday - Friday, 8:00-5:30.

Art Unit: 2132

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristin D. Sandoval whose telephone number is 571-272-7958. The examiner can normally be reached on Monday - Friday, 8:00-5:30.
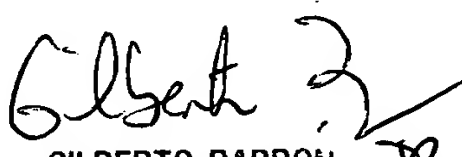
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kristin D Sandoval
Examiner
Art Unit 2132

KDS

GILBERTO BARRON JR
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Form 1449 (Modified)	Atty. Docket No. NAI1P466/01.042.01	Application No.: 09/911,765
Information Disclosure Statement By Applicant	Applicant: Muttik et al.	
(Use Several Sheets if Necessary)	Filing Date: 07/25/2001	Group Art Unit: 2132

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
KS	A	7,043,758	05/09/2006	Grupe	726	24	06/15/2001
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation Yes	Translation No
	L							
	M							
	N							
	O							
	P							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	R	
	S	
	T	

Examiner /Kristin Sandoval/ (01/03/2007)	Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Pg. 1 of 1